

## CHECKLIST #0135 FOR THE APPROVAL OF: METAL ROOF SYSTEMS (STRUCTURAL)

- ☐ Basic Requirements Checklist.
- ☐ One set of the manufacturer's 'approval document' including:
  - a. Details of all sections with dimensions and thickness,
  - b. Assembly details including connections at eaves, ridges and seam, and
  - c. Fastener diagram.
- ☐ Calculations verifying all data as follow:
  - a. Deflections shall not exceed  $L/240$ ,
  - b. Physical properties per AISI cold-formed steel design manual part III,
  - c. Fasteners spacing and size, and
  - d. Provision for diaphragm action shall be indicated.
- ☐ One set of manufacturer's design drawings marked and verified by the testing laboratory.

**The following current laboratory tests and test reports in compliance with protocol PA 301.**

- ☐ Accelerated Testing of coating for 2000 hours per ASTM G23.
- ☐ Salt Spray Testing of coating for 1000 hours per ASTM B117.
- ☐ Uplift resistance test per UL 580 Class 90 or higher. Alternatively, uniform static air positive & negative pressure difference per ASTM E1592 or UL 1897.
- ☐ Wind Driven Rain Test per PA 100 for slopes 2:12 and greater or PA 114 appendix G for slopes less than 2:12. If system is to include a valley assembly PA 100 shall be required in addition to PA 114 appendix G. See note # 3.
- ☐ Impact test per PA-201. Only for thickness less than 22 gage.

### Notes:

1. System must be tested with the same approved fastener: no change in configuration washer and/or diameter will be accepted.
2. Calculations for corner and field shall be verified with uplift test.
3. If system approval is to include horizontal joints, two horizontal joints shall be incorporated in PA 100 and one horizontal joint in PA 114 of the test specimens.

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